

SANTOPRENE® 121-79W233

A soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to bond to sulfur or peroxide-cured thermoset EPDM rubber for corner molding, end caps and special fixation applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Designed for applications requiring excellent adhesion to vulcanized EPDM rubber
- Specially formulated to replace thermoset EPDM rubber in automotive glass run channel corner molding applications
- Designed for shorter processing time compared to thermoset EPDM rubber

Typical mechanical properties

Stress at 100% elongation	522 psi	ISO 527-1/-2 or ISO 37
Stress at break	1070 psi	ISO 527-1/-2 or ISO 37
Elongation at break	615 %	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-76 °F	ASTM D 746
Low temperature brittleness	-76 °F	ISO 812
Shore A hardness, 15s	84	ISO 48-4 / ISO 868
Shore hardness change, after ageing	-1	ISO 48-4 / ISO 868
Compression set at 70°C, 24h	49 %	ISO 815

Other properties

Density	485 lb/gal	ISO 1183
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Injection

Drying Temperature	180 °F
Drying Time, Dehumidified Dryer	3 h
Processing Moisture Content	0.08 %
Max. regrind level	20 %
Max. mould temperature	50 - 126 °F
Vent depth	1 mil
Back pressure	50 - 99.9 psi
Injection speed	fast

Processing Texts

Processing Notes	Desiccant drying for 3 hours at 80°C (180°F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC.
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Other Approvals

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OEM	Specification
Stellantis - PSA Group	PMP 01378_15_01961
Mercedes-Benz Group (Daimler)	DBL 5562
Renault	FRM 18-27-068
VW Group	VW50123